



**WATER MANAGEMENT DIVISION  
MONTHLY REPORT**

**Information Exchange Bulletin**

**Vol. No. 00 – 4**

**Date: 5 MAY 2000**

Prepared by: U.S. Army Engineer Division,  
Great Lakes and Ohio River, PO Box 1159,  
Cincinnati, OH 45201-1159

**RESERVOIR OPERATION AND SYSTEM STATUS  
FOR APRIL 2000**

**HIGHLIGHTS** – Cairo began the month at 22.2', crested at 35.1' on the 12<sup>th</sup>, and ended at 28.0'. Normal stage for April is 37 feet.

**WEATHER** – The weather during April was closer to normal than was observed during previous months as conditions in April were generally cool and wet. Temperatures for the basin averaged near normal with slightly above normal observations in the northern areas and somewhat below normal in the southern states. Precipitation was generally slightly above normal for most of the basin. The most notable exception was Indiana and Illinois where precipitation was well below normal. Much of northern Indiana received less than ½ their expected rainfall. Palmer Index readings are in the severe drought zone for much of Indiana.

The following table summarizes temperature and precipitation for April:

**TEMPERATURE AND PRECIPITATION – APRIL 2000**

	TEMPERATURE		PRECIPITATION	
STATION	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	50.2	+0.6	3.15	0.0
Charleston, WV	54.1	-0.7	4.67	+1.36
Columbus, OH	51.4	+0.4	4.15	+0.94
Cincinnati, OH	52.3	-1.0	4.27	+0.52
Louisville, KY	54.7	-1.6	3.54	-0.69
Indianapolis, IN	51.4	-1.0	3.80	+0.10

Evansville, IN	53.9	-2.3	2.35	-1.67
Nashville, TN	56.7	-2.5	6.23	+1.86

**STREAMFLOW** -- Ohio River monthly average flows for April ranged from a low of 114 percent of normal at Paducah, KY to a high of 170 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 35 percent of normal at Pittsburgh, PA to a high of 203 percent of normal at Pittsburgh.

The following table presents the flow data summary for April at the Ohio River Index Stations:

**FLOW DATA – APRIL 2000**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	64,432	170	203	35
Huntington, WV	143,000	154	183	36
Cincinnati, OH	186,200	151	166	39
Louisville, KY	213,100	151	171	42
Evansville, IN	218,100	129	140	41
Paducah, KY	368,070	114	124	40

**RESERVOIRS** -- April started with 3.4% utilization of the total system flood control storage, peaked at 8.1% on the 10<sup>th</sup>, and ended the month at 2.95%. System-wide augmentation storage decreased from 99.1% at the beginning of the month to 97.4% by the end of the month. Significant flood storage utilization in excess of 25% occurred at 11 reservoir projects during April; 25.1% at Woodcock, 32.2% at E. Branch, 26.9% at Stonewall, 30.5% at Tygart, 71.4% at Berlin, 81.6% at Milton, 53.4% at Mosquito Creek, 34.8% at Atwood, 31.4% at Bolivar, 25.2% at Clendening, and 25.4% at J.P. Priest.

The following table depicts storage change by tributary reservoir subsystem for April:

<b>CHANGE IN STORAGE</b>	<b>(ACRE-FEET)</b>
--------------------------	--------------------

<b>TRIBUTARY-RESERVOIR SUBSYSTEM</b>	
Allegheny-Monongahela-Beaver	+157,000
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+131,300
Twelvepole-Big Sandy-Little Sandy-Scioto	+87,400
Little Miami-Licking-Mill Creek-Great Miami	+53,800
Kentucky-Salt-Green-Wabash	+282,200
Cumberland	+1,352,100
<b>TOTAL</b>	<b>+2,010,000</b>

RONALD A. YATES, P.E.  
Chief, Engineering and Water Management Division